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AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1. (canceled)
- 2. (previously presented) A seal for sealing a rotary shaft, the seal comprising:
 - a sleeve adapted to be disposed generally coaxially around the shaft and comprising
 - a flange sleeve portion extending generally radially outward from the sleeve,
 - an outward sleeve portion generally parallel to the longitudinal axis of the shaft and extending generally axially outward from the flange sleeve portion, and
 - an inward sleeve portion generally parallel to the longitudinal axis of the shaft and extending generally axially inward from the flange sleeve portion; and
 - an outer housing configured to generally surround the flange sleeve portion and at least a part of the outward and inward sleeve portions, the outer housing comprising
 - a flange housing portion extending generally radially inward from the outer housing and positioned axially inward relative to the flange sleeve portion,
 - a parallel housing portion generally parallel to the longitudinal axis of the shaft, and

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> a faceplate portion extending generally radially inward from the outer housing and positioned axially outward relative to the flange sleeve

portion.

3. (previously presented) The seal of claim 2, further comprising an elastomeric lip extending

generally between the faceplate portion and the outward sleeve portion.

4. (previously presented) The seal of claim 3, wherein the elastomeric lip comprises a base

secured to the faceplate portion and an end displaceably abutting against the outward sleeve

portion.

5. (previously presented) The seal of claim 4, wherein the end of the elastomeric lip is oriented

generally radially inward.

6. (previously presented) The seal of claim 4, wherein the end of the elastomeric lip is oriented

generally axially outward.

7. (previously presented) The seal of claim 4, wherein the end of the elastomeric lip is oriented

generally both axially outward and radially inward.

8. (previously presented) The seal of claim 4, further comprising a second elastomeric lip that

includes a base secured to the faceplate portion and an end displaceably abutting against the

outward sleeve portion.

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9. (previously presented) The seal of claim 8, wherein the ends of the elastomeric lips are

oriented generally radially inward.

10. (previously presented) The seal of claim 3, wherein the outer housing further comprises a

second flange housing portion extending generally radially outward from the outer housing.

11. (previously presented) The seal of claim 3, wherein the faceplate portion comprises a

parallel portion that is generally parallel to the longitudinal axis of the shaft.

12. (previously presented) The seal of claim 11, wherein the faceplate portion further comprises

a portion generally parallel to the faceplate portion and extending radially from the parallel

portion of the faceplate.

13. (previously presented) The seal of claim 3, further comprising a second elastomeric lip

extending generally between the flange sleeve portion and the outer housing.

14. (previously presented) The seal of claim 13, wherein the second elastomeric lip comprises a

base secured to the flange sleeve portion and an end displaceably abutting against the outer

housing.

15. (previously presented) The seal of claim 3, further comprising a second elastomeric lip that

includes a base secured to the flange housing portion and an end displaceably abutting against

the sleeve.

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16. (previously presented) The seal of claim 15, further comprising a garter spring associated

with the second elastomeric lip, which is a main sealing lip.

17. (previously presented) The seal of claim 15, further comprising a third elastomeric lip that

includes a base secured to the flange housing portion and an end displaceably abutting against

the sleeve.

18. (previously presented) The seal of claim 17, further comprising a fourth elastomeric lip that

includes a base secured to the flange housing portion and an end displaceably abutting against

the sleeve.

19. (previously presented) The seal of claim 18, further comprising a fifth elastomeric lip that

includes a base secured to the flange housing portion and an end displaceably abutting against

the sleeve.

20. (previously presented) The seal of claim 17, further comprising an elastomeric bumper

attached to the housing portion and abutting against the flange sleeve portion.

21. (previously presented) The seal of claim 15, further comprising third and fourth elastomeric

lips that each include a base secured to the flange housing portion and an end displaceably

abutting against the sleeve, wherein the second, third and fourth elastomeric lips are all oriented

generally axially inward.

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22. (previously presented) The seal of claim 21, further comprising an elastomeric bumper

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attached to the outer housing and abutting against the flange sleeve portion.

23. (previously presented) The seal of claim 2, wherein the sleeve is formed from at least two

pieces, the first piece comprising the outward sleeve portion and the second piece comprising the

inward sleeve portion.

24. (previously presented) The seal of claim 23, wherein the flange sleeve portion comprises a

flange that extends generally radially outward from the outward sleeve portion.

25. (previously presented) The seal of claim 23, wherein the flange sleeve portion comprises a

flange that extends generally radially outward from the inward sleeve portion.

26. (previously presented) The seal of claim 23, wherein the flange sleeve portion comprises

two flanges, one extending generally radially outward from the inward sleeve portion and the

other extending generally radially outward from the outward sleeve portion.

27. (previously presented) A seal as in claims 2, 24, 25 or 26, further comprising an elastomeric

lip extending generally between the flange sleeve portion and the outer housing.

28. (previously presented) The seal of claim 27, wherein the elastomeric lip comprises a base

secured to the flange sleeve portion and an end displaceably abutting against the outer housing.

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29. (previously presented) The seal of claim 28, wherein the end of the elastomeric lip is oriented generally radially outward.

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30. (previously presented) The seal of claim 28, wherein the end of the elastomeric lip is oriented generally axially outward.

31. (previously presented) The seal of claim 28, wherein the end of the elastomeric lip is oriented generally both axially and radially outward.

32. (previously presented) The seal of claim 27, further comprising an elastomeric coating on at least a portion of the sleeve in a region between the sleeve and the shaft.

33. (previously presented) The seal of claim 32, wherein the elastomeric coating extends into at least a portion of a region between the outward and inward sleeve portions.

34. (previously presented) The seal of claim 32, wherein the elastomeric coating has a radial channel.

35. (previously presented) The seal of claim 27, further comprising a second elastomeric lip extending generally between the faceplate portion and the sleeve.

36. (previously presented) The seal of claim 35, wherein the second elastomeric lip comprises a

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base secured to the faceplate portion and an end displaceably abutting against the outward sleeve

portion.

37. (previously presented) The seal of claim 27, further comprising a second elastomeric lip that

includes a base secured to the flange housing portion and an end displaceably abutting against

the sleeve.

38. (previously presented) The seal of claim 37, further comprising a garter spring associated

with the second elastomeric lip, which is a main sealing lip.

39. (previously presented) The seal of claim 37, further comprising a third elastomeric lip that

includes a base secured to the flange housing portion and an end displaceably abutting against

the sleeve.

40. (previously presented) The seal of claim 39, further comprising a fourth elastomeric lip that

includes a base secured to the flange housing portion and an end displaceably abutting against

the sleeve.

41. (previously presented) The seal of claim 40, further comprising a fifth elastomeric lip that

includes a base secured to the flange housing portion and an end displaceably abutting against

the sleeve.

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42. (previously presented) The seal of claim 39, further comprising an elastomeric bumper

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attached to the housing portion and abutting against the flange sleeve portion.

43. (previously presented) The seal of claim 37, further comprising third and fourth elastomeric

lips that each include a base secured to the flange housing portion and an end displaceably

abutting against the sleeve, wherein the second, third and fourth elastomeric lips are all oriented

generally axially inward.

44. (previously presented) The seal of claim 43, further comprising an elastomeric bumper

attached to the outer housing and abutting against the sleeve.

45. (previously presented) The seal of claim 27, further comprising a second parallel housing

portion generally parallel to the longitudinal axis of the shaft.

46. (previously presented) The seal of claim 45, wherein the second parallel housing portion is

attached to an inward end of the first parallel housing portion.

47. (previously presented) The seal of claim 2, further comprising an elastomeric bumper

attached to the housing portion and abutting against the flange sleeve portion.

48. (previously presented) The seal of claim 47, wherein the elastomeric bumper is also

attached to the parallel housing portion.

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49. (previously presented) The seal of claim 47, wherein the sleeve is formed from at least two

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pieces, the first piece comprising the outward sleeve portion and the second piece comprising the

inward sleeve portion, wherein the flange sleeve portion comprises at least one flange extending

generally radially outward from the outward or inward sleeve portions, wherein the bumper abuts

against said flange.

50. (previously presented) The seal of claim 2, further comprising an elastomeric lip that

includes a base secured to the flange housing portion and an end displaceably abutting against

the inward sleeve portion.

51. (previously presented) The seal of claim 50, further comprising a garter spring associated

with the elastomeric lip, which is a main sealing lip.

52. (previously presented) The seal of claim 51, further comprising a second elastomeric lip that

includes a base secured to the flange housing portion and an end displaceably abutting against

the inward sleeve portion.

53. (previously presented) The seal of claim 52, wherein the second elastomeric lip extends

generally radially inward from the flange housing portion.

54. (previously presented) The seal of claim 52, wherein the second elastomeric lip extends

generally axially outward from the flange housing portion.

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55. (previously presented) The seal of claim 54, further comprising a third elastomeric lip extending generally axially outward.

56. (previously presented) The seal of claim 55, further comprising a fourth elastomeric lip extending generally axially outward.

57. (previously presented) The seal of claim 50, wherein the elastomeric lip extends generally axially inward from the flange housing portion.

58. (previously presented) The seal of claim 57, further comprising a second elastomeric lip that extends generally axially inward from the flange housing portion.

59. (previously presented) The seal of claim 58, further comprising a third elastomeric lip that extends generally axially inward from the flange housing portion.

60. (previously presented) The seal of claim 50, wherein the outer housing further comprises a second flange housing portion extending generally radially outward from the outer housing.

61. (previously presented) The seal of claim 50, wherein the faceplate portion comprises a parallel portion that is generally parallel to the longitudinal axis of the shaft.

62. (previously presented) The seal of claim 61, wherein the faceplate portion further comprises

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a portion generally parallel to the faceplate portion and extending radially from the parallel

portion of the faceplate.

63. (previously presented) The seal of claim 50, further comprising an elastomeric lip extending

generally between the flange sleeve portion and the outer housing.

64. (previously presented) The seal of claim 63, further comprising an elastomeric lip extending

generally between the faceplate portion and the outward sleeve portion.

65. (previously presented) The seal of claim 50, further comprising an elastomeric lip extending

generally between the faceplate portion and the outward sleeve portion.

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